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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/889,491	02/05/2002	Philip Kusk	8969-029	4096
21874	7590 12/05/2005		EXAMINER	
EDWARDS & ANGELL, LLP			SWITZER, JULIET CAROLINE	
P.O. BOX 558 BOSTON, MA			ART UNIT	PAPER NUMBER
2001011, 111	. 02200		1634	

DATE MAILED: 12/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Advisory Action	09/889,491	KUSK, PHILIP	
Before the Filing of an Appeal Brief	Examiner	Art Unit	
	Juliet C. Switzer	1634	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence add	ress
THE REPLY FILED <u>10 November 2005</u> FAILS TO PLACE THI	S APPLICATION IN CONDITION F	FOR ALLOWANCE.	
 The reply was filed after a final rejection, but prior to or of this application, applicant must timely file one of the follo places the application in condition for allowance; (2) a No. (3) a Request for Continued Examination (RCE) in completellowing time periods: 	wing replies: (1) an amendment, a otice of Appeal (with appeal fee) in liance with 37 CFR 1.114. The repl	iffidavit, or other evide compliance with 37 (ence, which CFR 41.31; or
a) The period for reply expires months from the mailing of			
b) The period for reply expires on: (1) the mailing date of this Adv event, however, will the statutory period for reply expire later the	an SIX MONTHS from the mailing date of	f the final rejection.	
Examiner Note: If box 1 is checked, check either box (a) or (b). MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f	. ONLY CHECK BOX (b) WHEN THE FI).	RST REPLY WAS FILE	D WITHIN TWO
Extensions of time may be obtained under 37 CFR 1.136(a). The date on been filed is the date for purposes of determining the period of extension a CFR 1.17(a) is calculated from: (1) the expiration date of the shortened stabove, if checked. Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	which the petition under 37 CFR 1.136(a and the corresponding amount of the fee. atutory period for reply originally set in the	The appropriate extension final Office action; or (2)	on fee under 37 as set forth in (b)
 The Notice of Appeal was filed on 10 November 2005. A of the date of filing the Notice of Appeal (37 CFR 41.37(a appeal. Since a Notice of Appeal has been filed, any repl <u>AMENDMENTS</u> 	a)), or any extension thereof (37 CF	R 41.37(e)), to avoid	I dismissal of the
3. The proposed amendment(s) filed after a final rejection, (a) They raise new issues that would require further co (b) They raise the issue of new matter (see NOTE belo (c) They are not deemed to place the application in beloappeal; and/or	nsideration and/or search (see NO w); tter form for appeal by materially re	TE below); educing or simplifying	
(d) They present additional claims without canceling a NOTE: (See 37 CFR 1.116 and 41.33(a)).	•		
 The amendments are not in compliance with 37 CFR 1.1 Applicant's reply has overcome the following rejection(s): <u>112 2nd rejections</u> .		•
 Newly proposed or amended claim(s) would be a the non-allowable claim(s). 			_
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is pro The status of the claim(s) is (or will be) as follows: Claim(s) allowed: <u>25 and 31</u> . Claim(s) objected to: Claim(s) rejected: <u>26-30 and 32-37</u> . Claim(s) withdrawn from consideration: AFFIDAVITION OTHER SYMPSIACE	□ will not be entered, or b) ☑ wided below or appended.	vill be entered and an	explanation of
 AFFIDAVIT OR OTHER EVIDENCE The affidavit or other evidence filed after a final action, be because applicant failed to provide a showing of good an and was not earlier presented. See 37 CFR 1.116(e). 	d sufficient reasons why the affida	vit or other evidence	is necessary
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to a showing a good and sufficient reasons why it is necessar. 10. The affidavit or other evidence is entered.	overcome <u>all</u> rejections under appe ry and was not earlier presented. S	al and/or appellant fa See 37 CFR 41.33(d)(ails to provide a (1).
10. The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER		•	
11. The request for reconsideration has been considered bu See Continuation Sheet.			ance because:
12. Note the attached Information Disclosure Statement(s).13. Other:	(PTO/SB/08 or PTO-1449) Paper	No(s)	

Continuation of 11. does NOT place the application in condition for allowance because: First it is noted that claim 31 was not rejected in the previous office action. This claim depends directly from claim 25, and is allowable as it is written.

The 112 2nd rejections of record are overvome by the amendment filed 11/10/05.

Applicant traverses the rejections under 112 1st paragraph.

Regarding the MGP polymoprhism as a valid predictor of the rate of bone loss, applicants argue that the examienr has underrated the significance of the data presented. Applicant argues that the data presented in the specification demosntrates a sufficient difference in rate of bone loss for a physician to make a suggestion to a patient based on genotype at this polymorhism, and that he overlap of standard deviation does nto imply that there is no significant difference between the groups. However, the examiner maintains, as thoroughly discussed in the rejection that in view of the highly unpredictable nature of this invention that the data are not sufficient to draw to conclusions set forth in the claims. Applicant argues that the two groups are "well separated" at 12 and 18 years from study beginning. "Well separated" is entirely subjective. It is noted that the figure is not drawn to any scale, with the difference between 1977 and 1979 (2 years) being the same as the difference between 1989 and 1995 (6 years). Drawn to scale, the lines might even "appear" closer together. This is why statistical analysis is necessary for evaluating whether the differences between populations are actually present or are due to normal variation in populations. Applicant points to page 32, lines 4 to 19, to support the position that the data are sufficient to support the claims. This portion of the specificaiton states "None of the identified polymorphisms appeared to have a statistically significant impact on the change in bone mass over time." The rejection is maintained.

The arguments regarding OPN T1825C are similar to those presented for MGP and are not persuasive for similar reasons.

Applicant states that claim 27 requires that OPN T1825 should be measured with the BSP polymorphsim and this is clearly demonstrated in figure 9. Again, there is no statistical analysis of the data. Further, claim 27 also requires a relationship between a polymorphism at base pari 520 and rate of bone mass loss. Thus, the claim is not commensurate in scope with the arguments.

Applicant argues that the examiners comments regarding the unpredictability of the art are irrelevant in view of the data in the specification. However, the examiner feels they are relevant to establish that this art area is highly unpredictable. In the instant case this is coupled with questionable showings in the specification which are not supported with statistical analysis demostrating likely differences between populations.

Applicant's comments regarding the quantity of experimentation factor are correct. The examiner regrets this error. The practice of the claimed invention would, however, require extensive experimentaiton to confirm that the suggested relationships exist, since the data in the specification do not appear to provide statistically relevant associations.

The rejection is maintained.

PRIMARY EXAMINER